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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: JORGE TEJADA ET AL. Docket No.: 9-565
Serial No.: Examiner :
Filed : Art Unit :
For : CATALYTIC SYSTEM FOR
HYDROCONVERSION OF NAPHTHA

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INFORMATION DISCLOSURE STATEMENT

Hon. Commissioner of Patents and Trademarks
United States Patent and Trademark Office
Washington, DC 20231

Dear Sir:

In accordance with the requirements of 37 C.F.R. 1.97 and 1.98, Applicants hereby submit the prior art documents listed hereinbelow, copies enclosed.

1. U.S. Patent No. 5,254,327, Patented October 19, 1993, By Martinez et al., for ZEOLITIC CATALYST OF MFI TYPE, ITS PREPARATION AND USE. This reference relates to a zeolitic material for fluid catalytic cracking, and methods for its preparation and use and, more particularly, to a zeolitic material having a low ratio of silica to alumina which is prepared without the use of organic templates or seeding and which possesses a better cracking activity and a higher selectivity to gasoline and other light fractions or distillates.

2. U.S. Patent No. 5,354,719, Patented October 11, 1994, By Gabelica et al., for METHOD OF MANUFACTURING METALLOSILICATES. This reference relates to a process for preparing a metallosilicate catalyst including the steps of: forming a mixture of at least one non-alkali metal, a templating agent, and an organic base; adding a silicon additive to the mixture so as to form a metallosilicate hydrogel; aging the hydrogel to obtain a crystalline metallosilicate composition; washing and drying the crystalline composition; and calcining the crystalline composition so as to provide a metallosilicate catalyst. Two or more non-alkali metals may be selected so as to provide a multifunctional catalyst.

3. U.S. Patent No. 5,576,256 Patented November 19, 1996, By Monque et al., for HYDROPROCESSING SCHEME FOR PRODUCTION OF PREMIUM ISOMERIZED LIGHT GASOLINE. This reference relates to a hydroconversion catalyst composition including a catalytically active matrix having a surface area of between about 50 m²/g to about 290 m²/g, a silicious molecular sieve support medium distributed through the matrix and having a surface area of between about 250 m²/g to about 1200 m²/g and a catalytically active phase supported on

the support medium and including a first metal selected from group IIIA of the periodic table of elements and a second metal selected from group VIB of the periodic table of elements. The matrix preferably further includes aluminum, gallium, cobalt, molybdenum, and phosphorus.

4. U.S. Patent No. 5,591,324, Patented January 7, 1997, By Monque et al., for HYDROPROCESSING SCHEME FOR PRODUCTION OF PREMIUM ISOMERIZED LIGHT GASOLINE. This reference relates to a hydroconversion catalyst composition including a catalytically active matrix having a surface area of between about 50 m²/g to about 290 m²/g, a silicious molecular sieve support medium distributed through the matrix and having a surface area of between about 250 m²/g to about 1200 m²/g and a catalytically active phase supported on the support medium and including a first metal selected from group IIIA of the periodic table of elements and a second metal selected from group VIB of the periodic table of elements. The matrix preferably further includes aluminum, gallium, cobalt, molybdenum, and phosphorus.
5. U.S. Patent No. 5,770,047, Patented June 23, 1998, By Salazar et al., for PROCESS FOR PRODUCING

REFORMULATED GASOLINE BY REDUCING SULFUR, NITROGEN AND OLEFIN. This reference relates to a process for upgrading a nitrogen and sulfur rich heavy naphtha feedstock including the steps of providing a naphtha feedstock having an initial nitrogen content, an initial sulfur content and an initial octane number; contacting the naphtha feedstock with an acid source so as to provide a reduced nitrogen feedstock having a reduced nitrogen content which is less than the initial nitrogen content; contacting the reduced nitrogen feedstock with a hydroconversion catalyst system under a hydrogen atmosphere, temperature and pressure so as to provide a final product having a final nitrogen content which is less than the initial nitrogen content, a final sulfur content which is less than the initial sulfur content, and having a final octane number which is substantially equal to or greater than the initial octane number of the feedstock, and wherein the final product has an increased isomerized component and substantially no increase in aromatic content with respect to the feedstock.

6. European Patent Application No. EP 1 013 339 A2, Published June 28, 2000, By Zanibelli et al., for CATALYTIC COMPOSITION FOR THE UPGRADING OF

HYDROCARBONS HAVING BOILING TEMPERATURES WITHIN THE NAPHTHA RANGE. This reference relates to a catalytic composition which includes an ERS-10 zeolite, a metal of group VIII, a metal of group VI and optionally one or more oxides as carrier. According to a preferred aspect, the catalytic composition also contains a metal of group II B and/or III A. The catalytic system of the present invention can be used in the upgrading of hydrocarbon mixtures having boiling ranges within the range of C₄ to 250°C, preferably mixtures of hydrocarbons which boil within the naphtha range, containing impurities of sulfur, i.e. in hydrodesulfuration with the contemporaneous skeleton isomerization of olefins contained in these hydrocarbons, the whole process being carried out in a single step.

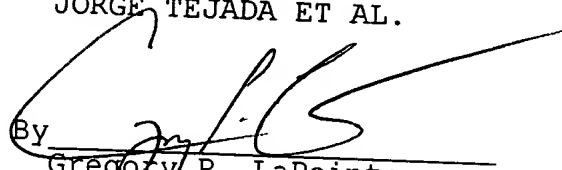
Copies of the foregoing patents are enclosed herewith along with a listing on form PTO-1449.

The undersigned submits the above-identified references for independent consideration by the Examiner and does not make any admission that these references are or are not material to the present invention or that these references are or are not prior art with respect to the present invention.

If any fees are required in connection with this case,
it is respectfully requested that they be charged to Deposit
Account No. 02-0184.

Respectfully submitted,

JORGE TEJADA ET AL.


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Date: August 17, 2001

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